

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

1501 MAILSERVICE CENTER, RALEIGH, N.C. 27611-1501

EUGENE A. CONTI, JR.
SECRETARY

June 10, 2010

Mr. Thomas J. Bonfield City Manager City of Durham 101 City Hall Plaza Durham, NC 27701

BEVERLY EAVES PERDUE

GOVERNOR

Subject: Extension of Municipal Maintenance Agreement, Schedule C

Dear Mr. Bonfield:

This is in reference to the current Schedule C, Municipal Maintenance Agreement, between the City of Durham and NCDOT Division 5 for the maintenance of traffic signals on NCDOT roadways within the city limits of Durham covering fiscal year 2010-2011.

In accordance with executed agreements, I am proposing to extend this agreement, Schedules C, with a 2% increase of the reimbursements rate starting July 1, 2010 and ending June 30, 2011. If the City approves of this extension and rate increase, please sign and date the bottom of this letter and return the original to me. A signed copy will be returned to the City for its records.

If we may be of further assistance, please advise.

W. Bowman, PE

Division Engineer

Sincerely.

Attachment

cc:

A. Battle Whitley, PE, Division Operations Engineer

Al Grandy, Division Traffic Engineer

Mark Ahrendson, Director, Durham Department of Transportation Larry McGlothlin, Traffic Operations Engineer, City of Durham

Sheila Gibbs, Contract Officer, NCDOT Susan McFall, Division Business Officer

APPROVED:		
Durham City Manager	Date Division 5 Traffic Engineer	Date

MUNICIPAL MAINTENANCE AGREEMENT - TRAFFIC CONTROL DEVICES SCHEDULE C - SIGNALS - LEVEL C (Page1)

The Board of Transportation will reimburse the Municipality for maintenance of traffic signals on the following schedule.

are not selected. Place a check beside the value for each maintenance function(s) the Municipality agrees to perform under any line item if all maintenance functions

Place a check beside the value under "Total Maintenance" if the Municipality is to perform all maintenance functions for any line item.

tem	Vehicular Signal Section(Average of 10 heads/int. or 30 section/int.)	Emergency Maintenance \$1.21	ancy lance	Preventive Maintenance \$9.84		Bench <u>Maintenance</u>	Total Maintenance 311.05
ω	Pedestrian Signal Head(Average of 4 heads/int.)	\$3.04	Q	\$20.24		┌ <u></u>	\$23.28
• • • • • • • • • • • • • • • • • • • •	Fiber-Optic or LED Blank-out Sign	\$12.15	15	\$12.15			\$24.30
٩	Pretimed Electronic Controller/Cabinet	\$72.85	85	\$133.55		\$220.63	\$427.03
!''	2-8 Assigned Phase Actuated Controller/Cabinet	\$72.85	85 	3485.63		\$262.65	\$821.13
	2-8 Assigned Phase Actuated Controller/Cabinet with Machine-vision Detection	\$72.85	85] \$485.63		\$787.95] \$1,346.43
Ü	Flashing Beacon Controller/Cabinet	\$12.14	14] \$121.41			\$133.55
-	Travel Costs for Preventive Maintenance at Signalized Intersections(not Flashers)] \$60.70			□ \$60.70
em		Lump Sum Payment	Payment				
⊱	Replace Loop(includes labor, materials, and other costs for sawcutting and sealing)		\$4.73 per	\$4.73 per foot of sawcut	/cut		
įΒ	Furnish and install Lead-in Cable		\$1.58 per	\$1.58 per foot installed	ed		
Ċ	Furnish Single Channel Loop Detector Unit ²	<u>\$</u>	\$105.06				
Þ	Furnish Two-Channel Loop Detector Unit ²	\$1	\$168.10				
įπ	Furnish and install Pull Box	\$1	\$157.59				

MUNICIPAL MAINTENANCE AGREEMENT - TRAFFIC CONTROL DEVICES SCHEDULE C - SIGNALS - LEVEL C (Page 2)

AF.	Furnish and install Pull Box Cover	\$57.78
AG.	Furnish and install Conduit	\$3.68 per foot installed
AH.	Furnish and install Riser	\$210.12
₽.	Furnish and install 35-foot Class 3 Wood Pole ²	\$556.92
ĄJ.	Furnish and install 40-foot Class 3 Wood Pole ²	\$615.06
AK.	Furnish and install Guy/Anchor Assembly	\$210.12
AM.	Furnish and install Audible Pedestrian Signal ²	\$420.24
A N	Furnish 12-inch 3-Section Vehicular Signal Head ²	\$102.00
A0.	Furnish 12-inch 4-Section Vehicular Signal Head ²	\$137.70
AP.	Furnish 12-inch 5-Section Vehicular Signal Head ²	\$224.40
AQ.	Furnish 8-inch 3-Section Vehicular Signal Head ²	\$66.30
AR.	Furnish 8-inch 4-Section Vehicular Signal Head ²	\$86.70
AS.	Furnish 8-inch 5-Section Vehicular Signal Head ²	\$153.00
AT.	Furnish Pedestrian Signal Head ²	\$86.70
AU.	Furnish LED Indication - 12-inch RED Ball ²	\$42.02
AV.	Furnish LED Indication - 12-inch YELLOW Ball ²	\$83.90
AW.	Furnish LED Indication - 12-inch GREEN Ball ²	\$52.63
×	Furnish LED Indication - 12-inch RED Arrow ²	\$37.94
AY.	Furnish LED Indication - 12-inch YELLOW Arrow ²	\$70.13

MUNICIPAL MAINTENANCE AGREEMENT - TRAFFIC CONTROL DEVICES SCHEDULE C - SIGNALS - LEVEL C (Page 3)

MUNICIPAL MAINTENANCE AGREEMENT - TRAFFIC CONTROL DEVICES SCHEDULE C - SIGNALS - LEVEL C (Page 4)

Item BO. BP. BR.	Item BO. Perform Annual Inspection on Railroad-Interconnected Intersections BP. Furnish LED Indication - 12-inch Hand BQ. Furnish LED Indication - 12-inch Man RR Furnish LED Indication - 12-inch Hand/Man Overlay		Lump Sum Payment \$190.18 \$45.80 \$84.15 \$121.13
.0	Perform Annual Inspection on Railroad-Interconnected Intersections		\$19
BP.	Furnish LED Indication - 12-inch Hand		\$45
BQ.	Furnish LED Indication - 12-inch Man		\$84
BR.	BR. Furnish LED Indication - 12-inch Hand/Man Overlay		\$121
BS.	Furnish LED Indication - 16-inch Hand/Man Overlay with Countdown Module		\$248.63
	Replacement of defective loop with loop of identical or upgraded design requires no prior approval. Upgrading of functional rectangular loops to Quadrupole design requires prior approval from Division Traffic Engineer	prior appro	val. Up

Emergency Maintenance: This maintenance includes all labor and incidental items to bring the operation of the intersection into reasonable conformance with the existing plan of record. Reimbursements for items AA through BN and BP through BS will be given for items utilized in the completion of this work. Sufficient spare equipment must be purchased at the expense of the maintaining agency to insure all intersections are continuously operating according to the plan of record under warranty, Municipality will not be reimbursed without prior approval from Division Traffic Engineer

followed to insure continued optimum operation. Sufficient spare equipment must be purchased at the expense of the maintaining agency to allow the Preventive Maintenance: This maintenance includes the labor and materials as outlined in the attached Schedule of Preventive Maintenance. Reimbursements for items AA through BN and BP through BS will be given for items utilized in the completion of this work only upon prior approval by the completion of this work. Division Traffic Engineer. Where specialty equipment is not addressed specifically in the attached schedule, manufacturer's recommendations should be

must be completed in a timely manner to support the emergency and preventive maintenance functions. making circuit modifications. This work includes making hardware, firmware and software upgrades to equipment to insure optimum operation. This work in-house repair of electronic assemblies by troubleshooting and replacing specific integrated circuit chips, repairing damaged printed circuit traces, and Bench Maintenance: This maintenance includes labor, parts and materials to repair electronic traffic signal control components. This work typically involves

² Requires prior approval from Division Traffic Engineer for reimbursement of non-emergency replacements. If item is covered

MUNICIPAL MAINTENANCE AGREEMENT - TRAFFIC CONTROL DEVICES SCHEDULE C - SIGNALS - LEVEL C (Page 5)

Engineer then forwards one copy of the letter and SCHEDULE to the DOT Controller and the State Traffic Engineer, returns a copy of each to the If the Division Engineer approves the new SCHEDULE he should sign, as approved, all four (4) copies of the Municipality's letter of request. The Division Items included on this schedule may be added or deleted to those checked above by a request in letter form signed by the Mayor, Clerk (or Manager). Municipality, and retains a copy of each for his file. This new SCHEDULE became effective July 1, 2010 and continues to June 30, 2011. The letter should be sent in quadruplicate to the Division Engineer accompanied by four (4) copies of the SCHEDULE with all appropriate items checked.

The Board of Transportation reserves the right of verification that all selected maintenance functions are being properly performed. If it is determined that any authorized maintenance function is not being performed, the reimbursement will be reduced accordingly.

		CLERK DATE	
DIVISION ENGINEER	DEPARTMENT OF TRANSPORTATION	MAYOR OR MANAGER	CITY OR TOWN
DATE	PORTATION	DATE	